## ALIPHATIC POLYESTER MICROFIBERS, MICROFIBRILLATED ARTICLES AND USE THEREOF

## **Abstract**

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The present invention relates to aliphatic polyester microfibers, films having a microfibrillated surface, and methods of making the same. Microfibers of the invention can be prepared by imparting fluid energy, typically in the form of high-pressure water jets, to a highly oriented, highly crystalline, aliphatic polyester film to liberate microfibers therefrom. Microfibrillated films of the invention find use as tape backings, filters for particulate contaminants, such as face masks and water or air filters, fibrous mats, such as those used for removal of oil from water and those used as wipes, and thermal and acoustical insulation. Microfibers of the invention, when removed from the film matrix may be used in the preparation of woven or nonwoven articles and used as wipes for the removal of debris or dust from a surface. The microfibers and microfibrillated articles of the invention may be biodegradable, rendering them useful for geotextiles.